INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000196

CLASSIFICATION OF SUBJECT MATTER A. Int. Cl. 7: C07F 9/54, A61K 33/42 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED B. Minimum documentation searched (classification system followed by classification symbols) SEE ELECTRONIC DATABASES BELOW. Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SEE ELECTRONIC DATABASES BELOW. Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Chemical Abstracts: Sub-structure search. C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to Citation of document, with indication, where appropriate, of the relevant passages Category* claim No. WO 2003/016323 A1 (ANTIPODEAN BIOTECHNOLOGY LIMITED) 27 February 1-10. X 53-59 2003. (see Claims and Examples) 1-19,32-KELSO, G. F., et. al. (2002) Prevention of Mitochondrial Oxidative Damage Using X 40,53-64,77-Targeted Antioxidants. Annals of the New York Academy of Sciences 959:263-74. 80.91-95.108-(see Abstract, Figure 2, p. 267) 110,114,115. JAUSLIN, M. L. el. al. (2003) Mitochondria-targeted antioxidants protect Friedreich 1-19,32-X Ataxia fibroblasts from endogenous oxidative stress more effectively than untargeted 40,53-64,77-80,91-95,108antioxidants. The FASEB Journal 17(13):1972-4. (published on-line 15 August 2003) 110,114-119. (see Abstract, and Discussion) KELSO, G. F., et.al. (16 February 2001) Selective Targeting of a Redox-active 1-19,32-X: 40,53-64,77-Ubiquinone to Mitochondria within Cells. The Journal of Biological Chemistry 276(7):4588-96. (see Abstract, Scheme 1 and Fig.1) 80,91-95,108-110,114,115. See patent family annex \mathbf{x} Further documents are listed in the continuation of Box C Special categories of cited documents: later document published after the international filing date or priority date and not in document defining the general state of the art which is "A" not considered to be of particular relevance conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel earlier application or patent but published on or after the "E" or cannot be considered to involve an inventive step when the document is taken international filing date document which may throw doubts on priority claim(s) document of particular relevance; the claimed invention cannot be considered to nt.u involve an inventive step when the document is combined with one or more other or which is cited to establish the publication date of such documents, such combination being obvious to a person skilled in the art another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition "0" document member of the same patent family or other means document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 1 NOV 2004 18 October 2004 Authorized officer Name and mailing address of the ISA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA ALISTAIR BESTOW E-mail address: pct@ipaustralia.gov.au

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C (Continuati	 	Relevant to					
Category*	Citation of document, with indication, where appropriate, of the relevant passages US 6331532 B1 (MURPHY, M. P. el. al.) 18 December 2001. (see col. 2 – 3, 19 - 20, and claims)						
X							
X	SARETZKI, G., et. al. (April 2003) MitoQ counteracts telomere shortening and elongates lifespan of fibroblasts under mild oxidative stress. Aging Cell 2:141-3. (see p. 141 and Fig. 1)	1-19,32- 40,53-64,77- 80,91-95,108 110,114,115					
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1.	Claims Nos.:						
	because they relate to subject matter not required to be searched by this Authority, namely:						
,							
2. · X	Claims Nos.: 1 – 5, 11 – 15, 32 – 36, 53, 54, 60 – 62, 77, 78, 91 – 94, 108 - 110, 114 – 119 (all partially)						
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:						
	The only support provided for compounds having mitochondrially targeted antioxidant effect are those being methoxyphenyl alkyl triphenylphosphonium or methoxy dioxocyclohexadiene alkyl triphenylphosphonium derivatives. These compounds represent the special technical features of the invention, and hence have been subject to a search. Compounds claimed entirely in terms of having a mitochondrially targeted antioxidant effect, cannot be searched. Hence the above claims have only been searched to the extent that they encompass the above named compound types.						
3.	Claims Nos.:						
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)						
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)							
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:						
`							
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.						
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:						
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark o	n Protest The additional search fees were accompanied by the applicant's protest.						
	No protest accompanied the payment of additional search fees.						

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
wo	03016323	EP	1423396	NZ	513547			
US	6331532	ΑŬ	16964/99	AU	16965/99	CA	2311318	
		EP	1047701	NZ	505352	US	2002052342	
	•	US	.2003069208	US	2004106579	WO	9926582	
		WO	9926954		·			

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX